			<i>N</i>
	Application No.	Applicant(s)	•
Nation of Allowahility	09/484,259	COATES ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Tarifur R Chowdhury	2871	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. <b>THIS</b>
1. A This communication is responsive to amendment filed on 0	<u>06/10/04</u> .		
2. The allowed claim(s) is/are 31-38,40 and 41.			
3. $\square$ The drawings filed on <u>18 January 2000</u> are accepted by the	e Examiner.		
<ol> <li>Acknowledgment is made of a claim for foreign priority una)</li></ol>	been received.  been received in Application No. 05 cuments have been received in this of this communication to file a reply ENT of this application.	national stage applica	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) \(\sum_\) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F			Note the
Attachm nt(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	(PTO-413), e nent/Comment	
of Biological Material	9.		

Application/Control Number: 09/484,259

Art Unit: 2871

## Allowable Subject Matter

1. Claims 31-38, 40 and 41 are allowed.

- 2. The following is an examiner's statement of reasons for allowance:
- 3. The prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal film with homeotropic alignment wherein the homeotropic alignment is achieved by an aligning layer on a substrate wherein the aligning layer is an Al2O3 layer with a surface sufficiently smooth such that a liquid crystal film is formed thereon can be removed in one piece, wherein the liquid crystal film is prepared from a mixture comprising a reactive mesogenic compounds of formula I

Wherein

P is a polymerizable group

Sp is a spacer group having 1 to 20 C atoms,

X is a group selected from -O-, -S-, -CO-, -COO-, -OCO-, -OCO-O or a single bond;

N is 0 or I,

MG is a mesogenic or mesoginity supporting group, according to formula II

- 
$$(A^1 - Z^1)m-A^2 - Z^2 - A^3 -$$

wherein A<sup>1</sup>, A<sup>2</sup>, and A<sup>3</sup> are independently from each other 1,4-phenylene;

Z<sup>1</sup> and Z<sup>2</sup> are each independently –COO-, -OCO-, CH2CH2-, -OCH2-, -CH2O-, -

CH2=CH-, -C=C-, -CH=CH-COO-, -CO-CH=CH- or a single bond,

M is 0, 1 or 2, and

Page 2

R is an alkyl radical with up to 25C atoms which may be unsubstituted, mono-or polysubstituted by halogen or CN, including all other recitations of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (571) 272-2287. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRC June 26, 2004

TARIFUR R. CHOWDHURY
PRIMARY FXAMINER